Rec'd Jan 10th
Ans same day

Utica N.Y.
Jan 24. 1865

Dr. Engelmann

Dear Sir

I venture to address you from necessity rather than merit.

I have been engaged in making out a catalogue of our flora, at the request of Judge Clinton of Buffalo, to be published by the Regents of the State University. Two or three Sagittarias and three or four Euphorbias bother me, and I cannot determine them surely.

Do you attend to the naming of such plants? If so I would be glad to send them to you.

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I have heard that Professor Braun has written an article on the genus Naias. But when and where it is I know not. Can you tell me?

When collecting this Naias major in Onondaga Lake, and also Ruppia maritima there! I gathered another water plant which was without flowers or fruit and I can make nothing out of it. I possess but one specimen I believe, but will send it if you would like to see what you can do with it.

Probably Judge Clinton has supplied you with specimens of N. major, but if you want more I will gladly send them

Hoping to hear favorably I remain Respectfully

John A. Paine Jr.
Utica N.Y.

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Rec'd Jan 21st 1865
Ans Febr 3rd

Utica N.Y.
Jan 16.

Dr. Engelmann

Dear Sir

Your cordial note and kind offer, did not reach me till Saturday night.

If I had saved duplicates I should have been glad to have sent you more specimens. Only rare things have I been willing to preserve and those I knew not at the time – to be looked up for the Catalogue's sake.

If I had foreseen this I should have preserved specimens for you, but these are no specimens, only what I dried in my phase for future study, then to be thrown away!

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I will arrange the package thus.

1. Euphorbia platyph? From Winfield.
2. Euphorbia platyph? Fr. Clark's Mills.
3. Euphorbia helioscop? fr. Onondaga Lake.
4. Euphorbia helioscop? " " "
5 " Euphorbia platyph. Fr. Niagara Falls.
6 Sagittaria graminea? autoplg from a Lake shore in the north woods, fifty miles north east of here. There was a large bed of them, partly under and partly out of water. The leaves were alike on all — widest at the base. No leaves with petiole and elliptic blade on any of the whole number, not even those out of water. All were this long triangular form.
7 Sagittaria graminea var? From a creek-side near Utica.
8 Sagittaria variabilis? From a mill pond mud bank.
9 I do not know what to call. Sagittaria very young, with stolons & bulbs

I gathered it somewhere about Onondaga Lake

10. A Triplex hastata (2 forms) from Salina.

11. Blitum maritimum Nutt.? A. hastata major, viridi

12. " " from Alexandria? I suppose so, but I did not see the profusion of its hastate leaves becoming obovate, or spatulate! They are found near Salina along the western side of the lake

13. Chenopodium glaucum. All around the Lake.

14. Salicornia ? Everywhere in the marshes there.

15. Cuscuta Gronovii? East of the Lake in low thicket woods.

16. Lycopodium fascicularis, Salina, wet banks and marshes.

17. Ruppia maritima! Abundant in the shallow water of Onondaga Lake

18. Zannichellia palustris. Rare there.

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19 Naias major. In the Lake.
Have you a copy of that article by Prof Braun? I wish to read it very much.

20 25. the flowerless & fruitless Lake weed, Ruppia maritima I can do nothing with. It was abundant in the Lake, in deep water, growing to great length - many feet. I could not detect any infruit.

You will not return any of these things, save the last and no 9, if you do not tell me what they are, but if you do name them - of course I do not want to see them any more.

If you would like more of 19 17, 16, 15, 13, 10, let me know, I will spare you as many as I can.

Please be assured Sir, of my gratitude for your kindness and assistance.

Most truly John A. Paine Jr.

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Rec^d Febr 16th

Utica N.Y.
Feb. 10.

Dear Sir

Your letter of the 3d. has just reached me!

I am exceedingly grateful for the determinations.

If there are any genera or species of plants you wish me to collect for you, far away let me know - I will do what I can.

Blitum maritimum Judge Chilton said he found near Salina, so determined by Gray. I know not the plant

and so was not sure the large Atriplex might be it – it was so different from the smaller forms I sent.

I am glad you think Chenopodium glaucum native there. I do not see how it can be otherwise – it is very abundant; I shall so insert it in the Catalogue.

Of Ruppia I collected only a few specimens – its value as a discovery, and so finely in fruit, I knew not until too late.

I think I can spare more if you major but know not how much I have.

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I have a record of finding Potamogeton spectinatus in the lake three or four years ago.

Another Potamogeton I gathered this last-fall with the Ruppia, I will send - I thought - I could be sure myself - but am not.

Salicornia "probably mucronata" I have put it down as S. herbacea in the catalogue - of course. I know none of them & so note one from another. And as I gathered it in Oct. long after frost - I cannot tell which it is. If it is S.

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mucronata, it is important to be sure, if it can be made out in this condition and you have not enough for determination, I will send more. Pray let me know. I am not sufficiently for these things.

Braun's article has not answered. If I saw any of the various forms of the horns I saw on the ground, I will send them if Braun does not locate them.

One was much smaller, another full of horns like the briars of the Rose, on the stems & ribs of leaves

Very truly John A. Paine Jr.

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Rec'd Apr 7th
Ans Apr 8th

St Louis Mo.
April 3d.

Dr Engelmann

Dear Sir

Almost ever since I wrote to you last I have been away from home, and have been unable to send the fol lants I spoke of.

Your copy of the Hayden magazine paper, came very safely and I have wanted to copy what pertains to it, but have been absent. I will try to do so now, and return it in a few days. I shall be very sorry if I have thus troubled you.

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In a little package I will send you after

Trollius laxus

Viola Selkirkii

Saxifraga azoides

Primula mistassinica

you will find more specimens of the Salicornia Californica, which you thought probably was S. mucronata. If this is truly the species, I wish very much to know it for my Catalogue.

Also a Callitriche growing on muddy banks

I have more specimens of Lonicera major

Of Ruppia maritima I did not gather as many as I should if I had known its

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importance, and my few are all gone - I have some very poor ones - but not such as I would wish to have go into your herb.
Next year I will send you fine ones if I can gather any.
Then last of all follow two Potamogetons. The little fellow I gathered in shallow pools in Cristany Creek, supposing it to be P. pusillus. But it is uneasy there, and I have thought it might be the same as the larger one below which I took to be P. pectinatus when I gathered it in Onondaga Lake. I would like to see some what both are.

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My Catalogue MSS will go to Albany to the Printer, in about two weeks Dr Trowbridge Sec'y of Regents says, and I shall keep it as long as possible, yet must request you to give me what accessions you can in the above points as soon as you can attend to them

I remain
Gratefully
yours

John A. Paine Jr.

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Rec'd Sept 22nd 1865
Ans same day

Albany N.Y.
Sept 19

My dear Sir

I have a little Cuscuta which does not seem to be C. Gronovii and which looks more like what Judge Clinton calls C. inflexa. Is it so? I found it on Sourwing along Lake Ontario at Sodus Bay.

If it is C. inflexa I must add it to my Catalogue forthwith, in an Addenda immediately.

Do, it is Gronovii

Most truly
J. A. Paine, Jr.

Geo. Engelmann
St. Louis.

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Rec 2 Sept 30
Ans Oct 23

Utica N.Y.
Sept 27

Dr Engelmann

Dear Sir

Your note has just come in. The Cuscuta of the Lake is quite different from that of our river, though I made out no special characters: it looked like the one Judge Clinton sent you, wh I saw fresh; and I had no description of C. inflexus — so came the question.

As to Jenci, we have J. Gerardi abundant at Salina and all round

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Onondaga lakes. If you wish such inland specimens for comparison with coast plants, I will gather for you —

I have never seen J. maritimus. The nearest to another coast-plant is J. Balticus, all along Lake Ontario, and at several points distant from the south shore.

As to Charas there is a very forbidding one in the wide waters of Lake Ontario. I sent it out one time to Prof Gray, who said it belonged to the Nitella section, but reminded me that he didn't name Charas, so I gave it no more

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attention. If I can get it again I will send it to you.

As to the Dryandra the character from the roots — that of tulip-bearing, is altogether different from D. odorata, and, must hold it. Prof Gray made a character on the defective arillus but I have found it once with as good arils as D. odorata, or D. menor ever had.

Take specimens I cannot describe though I think I remember them well — as I have no roots now, holding back all to Prof Gray. But

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I will try to go to the Lake Ontario somewhere tomorrow and obtain a supply for you – also tubers (for cultivation), by which it propagates itself.

I have tried to get to the Falls in Oswego river at Fulton, to see about Pursh's Rosites, but have not succeeded yet.

I have discovered a Eleocharis diversa on the shore of Lake Ontario, with smooth leaves off of coast.

Have not been to Salina this year. Judge Clinton ought to attend to his Bitum there.

Cannot get hyphar advena flowers now to tell from sight but memory is about as good, a light yellow; N. Salomiana deepest; which is abundant in Oneida Lake. Indeed grows not yet here. Many thanks for the seed Cuscuta inflexus and Calcitrichum.

Most truly John Ar Paine Jr.

Rec'd Oct 20th
Ans Oct 23d

Wm. H. Crawford
Secy

Wing Chap. Ocean Line.

I regret to report that the results of my trip were not so satisfactory as to water plants as I hoped. I found no more Chara, nor new Desmids, got no more fruit of the Megasporea. This new Tuber bearing plant however I found in all the lakes of the Western part of the State and very common in all the bays since I came westerns of L. Ontario.

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This also the only species of Hypoxis in this same region and range.

I have found for you a little box full of its tubers, wh will grow sooner & surer than seeds, of wh I have none.

I have sent a few packed in the same way to Prof Caspary.

I will send you a proof of what I have to say about these lilies.

I am a new hand at such descriptions, and though you may not have seen the plants, yet you can criticise the terms in the description. I want to know if they are all right.

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Another specimen
Purshia says of Isoëtes
lacustris Common rocks on
the bottoms of rivers:
New York, in the Genesee
river near the falls,
wh I thus quote in
my Catalogue. Now
Gray remarks "There
it is probably not
lacustris but
Echinosporum" (Echinospor-
ma? or some such word
I cannot make it out)
I have no idea of
something about this
Can you tell me the
name & authority or
under the name as
a translation. If you
would be so kind as
to send me the monograph

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or work on Isoetes containing a full description of that species; or if not will he so kind as to give me an exact copy.

I will be glad to give the description complete in my catalogue, as I do of many rare or obscurely described (in the Manual) plants. It will be acceptable to many who have not the work.

I put two labels in the can wh I do not know and am of no consequence doubtless.

Most truly

John M. Ponsey

Dr Engelmann
St. Louis

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Rec'd Nov 3 – 1865
Ans Nov 9

Utica N.Y.
Oct 31.

My dear Sir

I am extremely grateful to you for your last letter. Yours is a faithful friendship, and I value it, most highly. From some who were just-some old friends, I have received letters of sympathy and so far as assistance is regarded – a cold shoulder. I have been told the traders want nothing but branches, and that this is a mere form, of h. odorata developed by the warmer climate and fertile soil of the western

above the Eastern states, & a other absurdities equally ridiculous.

It is a great relief to turn to one who is ready to recognize, to accept justly and to sympathetically assist. I am desirous of acquiring what this work is all about to me, I know that before I attempted it, and have felt it very deeply in the effort; I have longed for assistance, because I could ~~be~~ bring neither experience in writing, nor a knowledge of other species to direct what to describe, so I am very willing to receive your most valuable suggestions and most grateful for your kind assistance.

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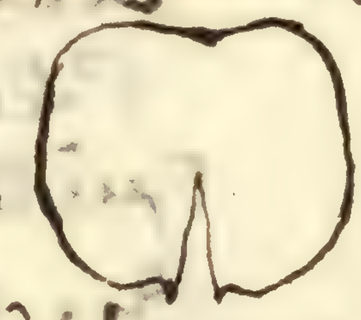
Because I was making out a catalogue of our plants, Prof. Gray very generously threw the morning's amendment-account to me, on very serious matters, and 'a work' I was quite reluctant to undertake.

I suggested to Prof Gray the name Tolu. Is tulipifera? Can he refer me to the letter? I do recollect which is to be done when Dr's differ?

I have measured many leaves of the largest sizes 15-17 inches, and find them all 'scarcely orbicular' never varying half an inch any way. Sometimes the sides are drawn in, but then the end is also; and vice versa.



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As to the veins – when I came to try I found I did not know how: there was a great one wh I could not tell whether it belonged to the leaf or the midrib, and at the end I did not count two or three short ones, an inch or less in length. there are so many that it is an indefinite work. Not as in the leaves of H. minor, wh are 7 basal + 5 for the rib uniformly on all the leaves I have possessed. I sent three leaves + two heads I believe. Also some poor flowers of H. tuberosa to show you the anthers. Not knowing all about the anthers of others, I would not attempt these to lengthen acuminate + not 'linear' Please see + compare. I am quite sure however that neither H. occidentalis nor Var minor

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have their authenticity as in this style. Those of the latter are some sure obtuse.

Most of the tubers decay off, but not all; occasionally I have found them on the old root stalk, not having been detached, and still of the same size of the living ones near the new end. The tubers form with the rhizoma itself on its very end, overlapping with the extreme point, where they are quite small of course, nothing can be told certainly but from the great number I have seen I should judge it took them two or three years to mature and altering their natural full size quite a

The anomalous habit of fruit ripens to the perfection arillus, which is almost universally only a shaggy cup, or matching half way up, even on mature fruit, only once have I found it complete. Pools stagnant water here never completed these perfect arils. Prof Gray said they never would have been perfect, as they are only rudiments. Similar pools of rain minor gathered earlier have completed arils.

I cannot send seeds now, which I had arranged long ago, spoiled the arillus for passing before I knew it.

By anemones I mean muscular, as I thought will describe the surface, like the muscles of a strong arm

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Trans. – I'll allow as Cowl Cows & Sam in some of the English Cantons – Smith or Withering.

As to system, I think – I follow as first – the order you indicate. The popular remarks seem unfortunate as with the character.

The infestations are only of the moroses, legumes, tulips &c for the purpose of stating facts of interest.

I have a new form of this account, since I let you see my dear Sir, to spare it – not if you find anything to amend, improve, or whole: change –

If you think necessary give any other order, or even re-write any part, I shall be glad to have

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Give it all right — for final publication, observing of course omissions according to my synonymy of the plant itself.

To Prof. Caspary I sent only a few tubers, packed as I sent the many to you.

I have not written to him nor received any communication from him. Prof. Gray however sent me a letter from him to read & return. I will give him any account you think proper.

As to the species, I cannot yet know what to do.

I will try to find the descriptions in New York this week, & then calculate the publication of proofs.

Please direct to "Newark N. J." (Roseville)

Most truly
John A. Paine Jr

Dr. Engelmann
St Louis

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Rec'd Nov 11th
Ans same day

New York
Nov. 8.

My dear Sir.

I write to say that I have received notice that my Catalogue must be finished up at once — so I must request you to send your emendations at once, if you have not already done so. I am waiting for them alone now, & shall be very sorry if I have to close up without them

Yours truly
J. A. Paine Jr

Dr. Engelmann
St. Louis

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Rec'd Dec 12
Ans Jan 23d

Newark (Roseville) N.J.
Dec. 7.

My dear Dr.

We were delayed in leaving Utica, then our household goods were much longer on the way here than we expected, and only just now are we beginning to be settled — even to the extent of a place for writing. In New York I was obliged to remain waiting many days, but I came over often to this P.O. until your letter arrived. I was greatly assisted by your criticisms and suggestions, and my thankfulness for the help

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be assumed is in due proportion.

Only one thing I regretted — you told me the stipules must go in the diagnosis: but in New York, alone at a hotel, without any of my books or works of reference I could not write the latin well, besides no time — I had to send it off at once. Now I don't remember how I described them, but I do remember fearing it was bad latin and knowing that it was not as it should be.

It is strange the Catalogues don't come along, they ought to have been finished long ago, and were promised last week. As soon as received I will send you a copy

This Nymphaea is no new thing with me — I have known

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it in the marshes near Cosmopo
three five years and although
I did not examine the rhizomes
until this season, yet the
inodorous flowers and large
leaves and general size
caused me to consider it at
least as far off as a var.
from the common h. odoratum of
New England. So this sum-
mer, when Prof. Gray visited
his old home near Utica, and
looked over my proof that
was printing of the last part and
read the pages already printed
he saw this "var." as I called
it and said if it really was
inodorous I had better examine
the matter thoroughly as it
might be the h. alcicum of Eu.
Whereupon I went again to my
old locality determined to get
the whole plant and send it to

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George Engelmann Papers

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him to see if it was really as he conjectured. After gathering his fruit, leaves &c I sought for roots, but found it so difficult that I actually went home without them! But soon I was so ashamed of myself that went right back again, plunged in into mud up to the knees and water to the limit of working, once became fixed in a sinking place and thought it was all over with me! but at length by extreme efforts saved myself — but at length found a place where the rootstalks were accessible — for them up and to the tubers! This was an unexpected, novel character, and I did not quit that day until I had gathered all I could carry away, so I was quite prepared for my trips.

Prof. Gray from the first regarded these tubers as a specific character and also he thought he found another in the abortive ovillus. But this has proved inconstant — the tubers however have remained unchanged

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He communicated as a new species to the Amer. Acad.; and at the same time reserves the printing in the Proceedings for my work to quote from, as he said it was my right and duty to name and describe and he should be as well justified in doing so as to do it himself. This was when the avil character was considered a good one by him; what his opinion is now and conduct will be I do not know.

I have mislaid your last, and exceedingly valuable letter, and cannot answer it as I ought; but if I mistake not you regard the tubers alone not of specific value. Well if this is so, then there is more doubt about the species than I have supposed. Prof. Gray at once said this was a good character of distinction.

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and it is needless to say that to me it seems a positive difference from every other species or variety. If tuber-bearing be not a specific character, what is? what can be greater?

I believe also you remarked in each of the other points of difference that they are not specific.

Very true. One alone would not be so: but put them all together in addition to the tubers and you have a very different plant.

I can easily imagine how very easy it is to sit in one's study and try to get a good idea from a very poor description of an unknown plant. But to one who has ranged the south shore of Lake Ontario and visited nearly all the lakes and rivers of Western N.Y. and becomes so familiar with every part of the

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plant, – It is all perfectly plain! I sojourned three years in New England and have gathered heaps of L. odorata, Cent – I never saw anything like these tubers or its huge trunks wh often float about after being somehow torn up. Its leaves never go beyond 5–7 inches in diameter, lobes not acuminate, flowers highly fragrant peduncles never hairy, &c. &c. I never noticed any connection, not even on var. minor, nor did I know what an appendage was until I visited Nelumbium at Sodus bay.

But all this matters not. I am very sensible that the diagnosis is not what it should be, that the description is a very poor one, and at that not in scientific technical language, that any botanist could do the work better.

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All I have to say is that any one who meddles with the matter without complete and extensive examination of the living plants in place, will make worse work than I a novice have done. Facts not principles must guide. The living plant appears altogether different from an idea formed from another's description or from a few dry fragments. If the entire plant should be faithfully examined and comparedby yourself or Prof. Gray or Prof. Caspary and pronounced to be only a form of h. odoratus, I would be perfectly content. It was necessary to say something about the plant in my Catalogue which was to be closed up soon. I did not publish it for the sake of announcing it or of taking the name to myself — I supposed it to be distinct and so my notice of the plant threw it in to the present form of necessity.

Thanking you again for your great kindness, frankness and most valuable assistance I remain very truly

G. Engelmann. St Louis

John Ames Paine Dr.

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Ans - June 7
Ans June 11

Newark N. J.
June 4. 1887.

Dr Engelmann

I am to
sail in ten days,
the summer going
land, Germany
e.
esteem it a great
should furnish
letters to Scientific
ific gentlemen
be likely to take
what I may
Turkey.

Very sincerely yours

John A. Paine Jr.

ORDINATION AND CONFERENCE.—At the Ecclesiastical Council held in the First Congregational Church on Wednesday, Rev. John A. Paine, Jr., was ordained to the work of the Gospel Ministry. The public services in the evening were as follows: Address upon the Turkish Empire and charge, by Rev. Wm. J. Budington, D. D., of Brooklyn; Ordaining Prayer, by Rev. Thomas Williams, D.D., of Providence; Right hand of fellowship, by Rev. Wm. B. Brown, pastor of the candidate. Brief addresses on the subject of missions were made by Rev. Dr. Smilie, of Philadelphia, and by Rev. Mr. Ide of Stafford Springs, Conn. Mr. Paine sails in a few days to commence his labors as Professor of Natural Science in the Robert College of Constantinople. At the conference of churches held at the same place on Thursday the 30th, in which the Congregational churches of New York, Brooklyn and Pbiladelphia were largely represented, after a very full discussion upon the "True ends and proper observance of the Christian Sabbath," and after an ample collation spiced with many spicy little speeches, the following resolutions were unanimously adopted -

Resolved, That this Conference express their deep sense of the need of a weekly newspaper of metropolitan character, imbued with the spirit and doctrines of the Christian religion, consecrated to the highest interests of mankind, and characterized by intellectual capacity for the thorough discussion of great political and ethical questions.

Resolved, That we earnestly commend to the attention of men of means and enterprise and to men of thought and ability as public writers, the the expediency, without delay, of establishing a uewspaper on the basis originally occupied, but gradually and at last openly and entirely abandoned by the *Independent*.

A Committee was appointed to further the object proposed in the resolutions.

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Ans - Jun 7
Ans June 11

Newark N. J.
June 4. 1887.

My dear Dr Engelmann

I am to sail for Europe in ten days, shall be all summer going through England, Germany and France.

I should esteem it a great favor if you should furnish me with letters to botanists and scientific gentlemen who will be likely to take interest in what I may find in Turkey.

Very sincerely yours

John A. Paine Jr.

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